

Noa Vikman

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EDUCATION	2023–Now PhD Mathematics, University of Fribourg. Supervised by Prof. Stefan Wenger. Part of the Swiss National Science Foundation (SNSF) project 212867. 2021–2023 MSc Mathematics, KTH Royal Institute of Technology and Stockholm University. Exchange year at ETH Zürich 2022–2023. 2018–2021 BSc Engineering Physics, KTH Royal Institute of Technology.
RESEARCH	with T. Ikonen and D. Marti: <i>Systolic inequalities for metric surfaces via filling minimality</i>, ArXiv Preprint (2026). with D. Meier and S. Wenger: <i>Monotone Sobolev extensions in metric surfaces and applications to uniformization</i>, Proc. Amer. Math. Soc., to appear. with D. Meier and S. Wenger: <i>Energy minimizing harmonic 2-spheres in metric spaces</i>, J. Reine Angew. Math., to appear. <i>Recent Proofs of Gromov's Theorem on Groups of Polynomial Growth</i>, MSc Thesis supervised by Prof. U. Lang at ETHZ (2023).
ORGANIZING AND COMMITTEES	Bern-Fribourg Graduate Seminar, University of Fribourg and University of Bern (2025–2026). Swiss Mathematical Society Doctoral Day, University of Fribourg, 9 May 2025. Co-founder & Organizer, Stockholm Master's in Mathematics Seminar, Stockholm Mathematics Centre (2021–2023). Course Evaluation Board, KTH Royal Institute of Technology (2019–2021).
TEACHING	University of Fribourg, Teaching assistant for: Analysis I, Analysis II, Analysis III and Numerical Analysis KTH Royal Institute of Technology, Teaching assistant for: Analysis in One Variable, Linear Algebra, Numerical Analysis and Introductory Mathematics.
OUTREACH ACTIVITIES	Representation of the Math department during <i>Explora</i> and <i>Journée Futur en tous genres</i> outreach days at the University of Fribourg.
FELLOWSHIPS AND GRANTS	2026 SNSF Project Mobility Grant, CHF 10750 supporting my planned extended stay at the University of Toronto. 2025 Hausdorff Research Institute of Mathematics (HIM) Fellowship, supporting my extended stay in Bonn. 2022 Erasmus+ Scholarship, supporting my studies at ETH Zurich. 2018 Swedish Junior Water Prize, awarded for my research project of that year.
EXTENDED STAYS	August 2026 - January 2027 International Visiting Graduate Student, University of Toronto. Planned research visit to the group of Prof. Yevgeny Liokumovich. 2nd half of June 2026 Simons Semester Geometric Analysis, IMPAS Warsaw. January-April 2025 Trimester Program: Metric Analysis, HIM, Bonn. Including the winter school: <i>Analysis and geometry on groups and spaces</i>, the conference: <i>Differential geometry beyond Riemannian manifolds</i> and the Felix Klein lectures.
INVITED TALKS	2026 Simons Seminar in Geometric Analysis, IMPAN Warsaw. 2026 Modern Advances in Geometric Analysis, Będlewo, Poland - Lightning talk.

	2026	The Geometry and Topology seminar , University of Luxembourg.
	2026	The Swiss Mathematical Society Doctoral Day , ETH Zurich.
	2026	Geometry and Spectra of Compact Riemann Surfaces , EPFL - Lightning talk.
	2026	Vienna Geometric Analysis Seminar , University of Vienna.
	2025	Conférence Universitaire de Suisse Occidentale (CUSO) Graduate Colloquium , University of Basel.
	2025	Differential geometry and general relativity seminar , KTH Royal Institute of Technology.
	2025	Analysis seminar , University of Jyväskylä.
	2024	Geometry Graduate Colloquium , ETH Zürich.
	2024	Bern-Fribourg Graduate Seminar , University of Bern.
	2021	Water Dialogues – What’s underground? The Undervalued Groundwater , Stockholm International Water Institute.
ATTENDED CONFERENCES	2026	Math in May , ETH Zurich.
	2026	Workshop on bubbling phenomena in geometric analysis , ETH Zurich .
	2025	CUSO Summer School in Mathematics , Centro Magliaso.
	2025	Quasiweekend III , University of Helsinki.
	2024	Metric Geometry and Geometric Measure Theory , University of Fribourg.
	2024	Geometry and Analysis on Metric Surfaces , Polish Academy of Sciences Warsaw.
	2024	Challenges in Analysis and Geometry , ETH Zürich.
	2024	13th School on Analysis and Geometry in Metric Spaces , University of Trento.
	2024	Conference en Mémoire d’André Haefliger , University of Geneva.
	2023	CUSO Graduate Colloquium , University of Fribourg.
	2023	Riemannian Topology Meeting , University of Fribourg.
	2023	Swiss Geometry Day , UniDistance Suisse Campus Brig.
	2022	Twinned Conference on Homotopy Theory with Applications to Arithmetic and Geometry , Max Planck Institute for Mathematics in Bonn.
EARLIER RESEARCH		with G. Romare: <i>Models of the Universe: An analysis of the asymptotic behaviour of non-linear dynamical systems</i> , BSc Thesis supervised by Prof. H. Ringström at KTH (2021).
		<i>Gold Nanoparticles as a Potential Colorimetric Sensor of Arsenic in Ground Water</i> , High school diploma project supervised by Prof. J. Dutta and Dr. A. Uheida at KTH (2018).
OTHER WORK	2022–2023	Junior Consultant in Data and Analytics , Victri Advice.
	Summer 2020	Tech Summer Intern , Storytel, Back end development.
OTHER ACCOMPLISH- MENTS	2018	China Adolescent Science Technology Innovation Contest , Chonqing, awarded second prize in the international category for my research project of that year.
	2017	World School’s Debating Championship , Bali, competed in the Swedish national team.

CV compiled on 2026-07-27.